Performance Data Sheet

RKA5515EXV

General Information

Model	RKA5515EXV	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	5710	5360					
	Watts	664	732					
	Amps	2.27	2.52					
	Lb/h	73.4	71.8					
-10	Btu/h	6310	5920	5560				
	Watts	679	751	822				
	Amps	2.34	2.61	2.89				
	Lb/h	80.7	78.9	77.2				
-5	Btu/h	7020	6600	6190	5810			
	Watts	694	770	845	921			
	Amps	2.40	2.69	3.00	3.31			
	Lb/h	89.2	87.3	85.5	83.7			
0	Btu/h	7840	7380	6930	6500	6090		
	Watts	710	789	869	949	1030		
	Amps	2.47	2.78	3.10	3.43	3.77		
	Lb/h	99.1	97.0	95.0	93.0	91.2		
5	Btu/h	8770	8270	7780	7300	6840		
	Watts	726	809	892	977	1060		
	Amps	2.53	2.87	3.21	3.55	3.91		
	Lb/h	110	108	106	104	102		
10	Btu/h	9810	9270	8730	8210	7690	7190	6700
	Watts	743	828	915	1000	1090	1190	1280
	Amps	2.60	2.95	3.31	3.68	4.05	4.44	4.85
	Lb/h	123	120	118	116	113	111	109
15	Btu/h	11000	10400	9790	9220	8650	8090	7540
	Watts	760	848	938	1030	1130	1220	1320
	Amps	2.66	3.03	3.41	3.79	4.19	4.59	5.01
	Lb/h	136	134	131	129	127	124	122
20	Btu/h	12200	11600	11000	10300	9700	9080	8480
	Watts	777	868	961	1060	1160	1260	1360
	Amps	2.72	3.11	3.51	3.91	4.32	4.74	5.17
	Lb/h	151	148	146	143	141	138	136

25	Btu/h	13600	12900	12200	11500	10900	10200	9500
	Watts	794	887	983	1080	1190	1290	1400
	Amps	2.79	3.19	3.60	4.02	4.44	4.88	5.33
	Lb/h	167	164	162	159	156	154	151
30	Btu/h	15100	14300	13600	12900	12100	11400	10600
	Watts	812	907	1010	1110	1220	1330	1440
	Amps	2.85	3.27	3.70	4.13	4.57	5.02	5.48
	Lb/h	184	181	179	176	173	170	168
35	Btu/h	16700	15900	15100	14300	13500	12600	11800
	Watts	830	926	1030	1130	1240	1360	1480
	Amps	2.91	3.35	3.79	4.24	4.69	5.15	5.62
	Lb/h	202	200	197	194	191	188	186
40	Btu/h	18400	17500	16700	15800	14900	14000	13100
	Watts	848	946	1050	1160	1270	1390	1520
	Amps	2.97	3.43	3.88	4.34	4.80	5.28	5.76
	Lb/h	222	219	216	213	210	207	204
45	Btu/h	20200	19300	18300	17400	16500	15500	14500
	Watts	866	965	1070	1180	1300	1420	1550
	Amps	3.04	3.50	3.97	4.44	4.92	5.40	5.89
	Lb/h	242	240	237	234	231	228	225
50	Btu/h	22100	21100	20100	19100	18100	17100	16000
	Watts	884	984	1090	1200	1320	1450	1580
	Amps	3.10	3.58	4.06	4.54	5.03	5.52	6.02
	Lb/h	264	261	258	255	252	249	246
55	Btu/h	24200	23100	22000	20900	19800	18700	17600
	Watts	902	1000	1110	1220	1350	1480	1610
	Amps	3.16	3.65	4.14	4.64	5.13	5.64	6.15
	Lb/h	286	284	281	278	275	272	268

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.170555E+04	5.428661E+01	-1.852416E-01	1.089169E+02
C2	2.226371E+02	2.262437E+00	-2.471707E-02	2.116811E+00
C3	-4.845912E+01	8.655565E+00	3.807662E-02	1.443429E-02
C4	2.674952E+00	4.996664E-02	1.169023E-04	2.265281E-02
C5	-4.070080E-01	-3.761557E-02	5.267135E-04	1.799733E-03
C6	-2.362310E-02	-8.438844E-03	-9.995902E-05	-2.457854E-03
C7	-3.042264E-04	-4.199504E-05	3.541872E-08	-2.741848E-05
C8	-5.542747E-03	-5.303214E-04	-1.585494E-06	3.299275E-05
C9	-2.311027E-03	6.181497E-04	-6.837061E-07	-2.580941E-05
C10	3.110176E-04	3.345306E-05	4.792755E-07	9.221068E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature